

[Drawings]

Fig. 1 -- HEAT PRODUCTION  $Q$  [kJ]

CRANK ANGLE (deg)

Fig. 3 --

- 5 S10: SETTING INTAKE AIR QUANTITY AND FUEL INJECTION QUANTITY
- S12: THROTTLE CONTROL, FUEL INJECTION
- S14: OBTAINING  $P(\theta_1)$
- S16: CALCULATING  $P(\theta_1) V^k(\theta_1)$
- 10 S18: OBTAINING  $P(\theta_2)$
- S20: CALCULATING  $P(\theta_2) V^k(\theta_2)$
- S26: COUNTER INCREMENT
- S28: COUNT NUMBER > THRESHOLD VALUE ?
- S30: CORRECTING AT LEAST ANY OF OPENING OF THROTTLE, FUEL
- 15 INJECTION QUANTITY, VALVE TIMING, and EGR RATE
- S32: COUNTER RESET
- S36: COMPLETE MISFIRE ASSUMPTION, WARNING DISPLAY

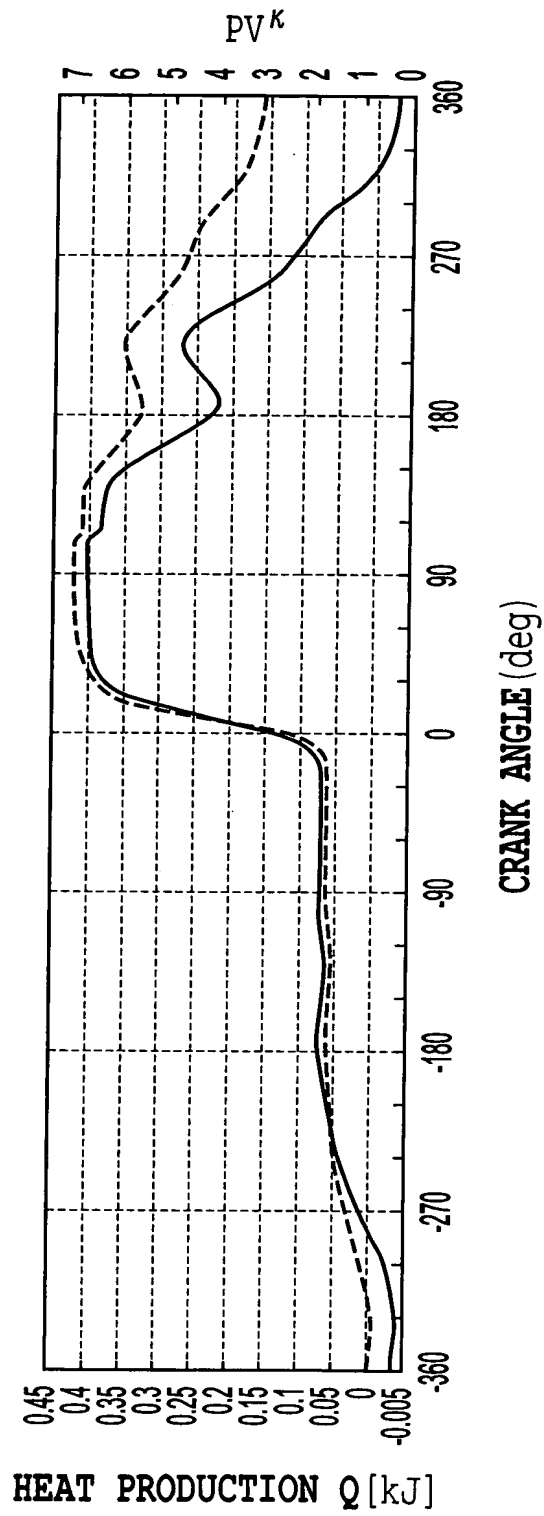


FIG.1

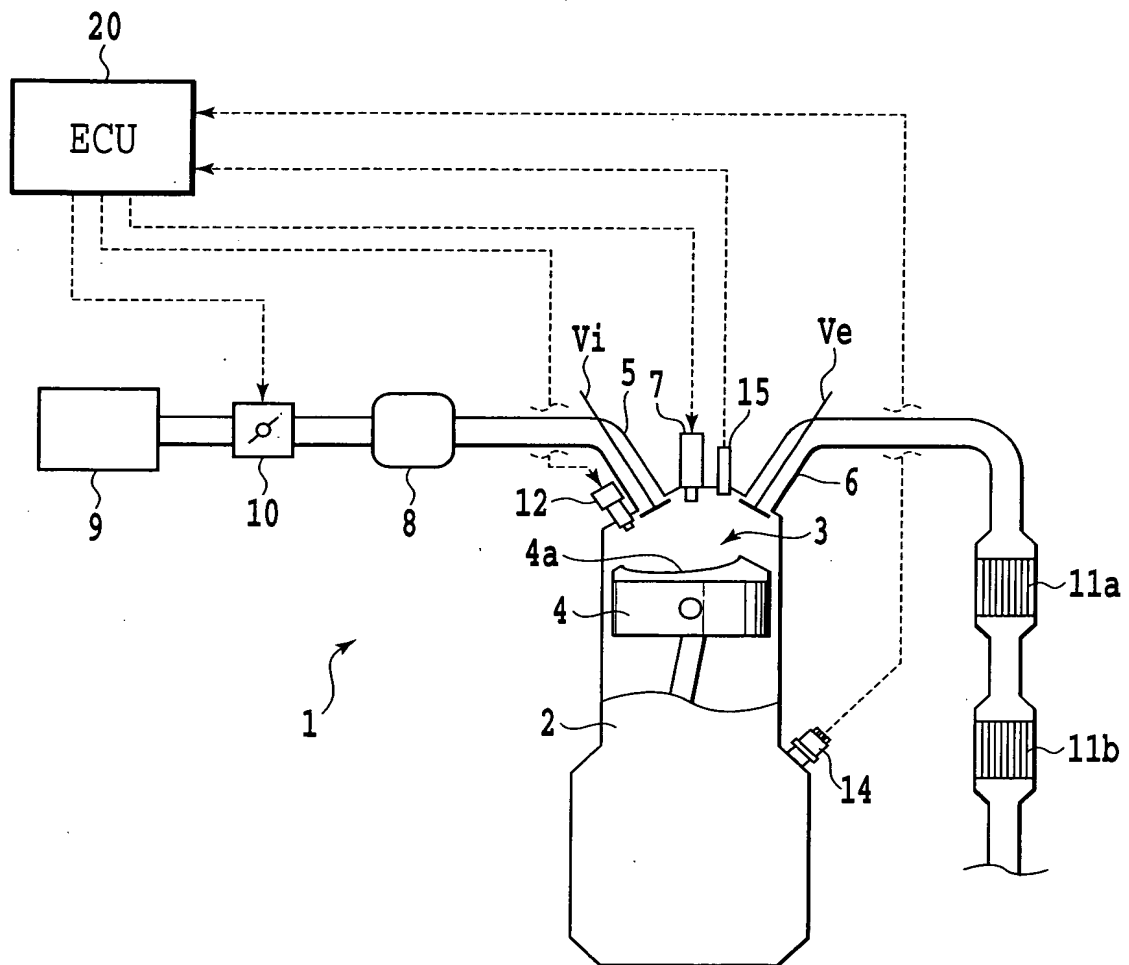


FIG.2

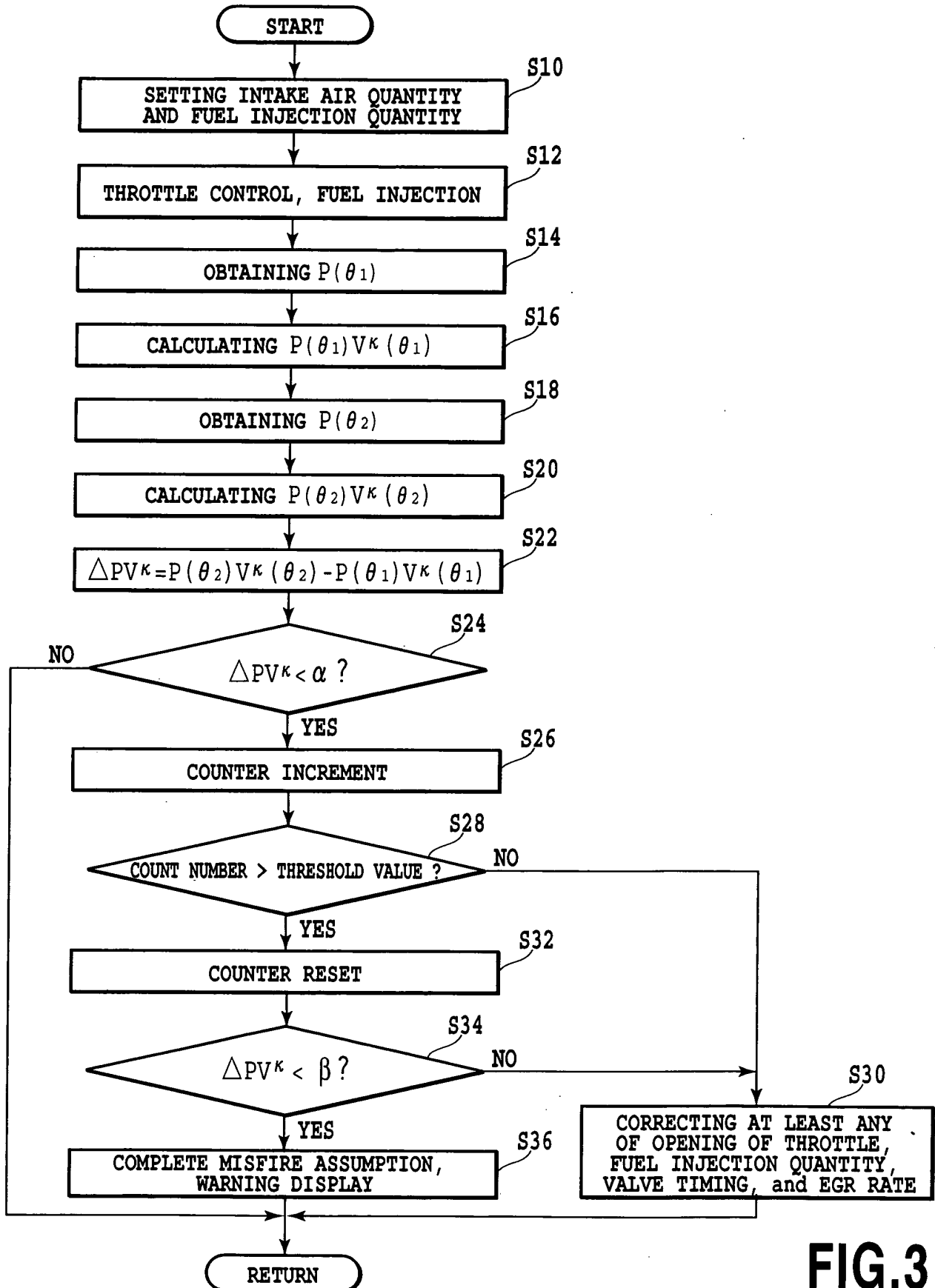


FIG.3